Todd L. Lowary

List of Publications by Year
in descending order

282 papers	9,000 citations	41344 49 h-index	82547 72 g-index
325 all docs	325 docs citations	325 times ranked	7229 citing authors

#	Article	IF	Citations
1	Selective Detection and Site-Analysis of O-GlcNAc-Modified Glycopeptides by Î²-Elimination and Tandem Electrospray Mass Spectrometry. Analytical Biochemistry, 1996, 234, 38-49.	2.4	185
2	Chemistry and Biology of Galactofuranoseâ€Containing Polysaccharides. ChemBioChem, 2009, 10, 1920-1938.	2.6	183
3	Novel lipoarabinomannan point-of-care tuberculosis test for people with HIV: a diagnostic accuracy study. Lancet Infectious Diseases, The, 2019, 19, 852-861.	9.1	159
4	DC-SIGN+ Macrophages Control the Induction of Transplantation Tolerance. Immunity, 2015, 42, 1143-1158.	14.3	144
5	Sialic acid-containing glycolipids mediate binding and viral entry of SARS-CoV-2. Nature Chemical Biology, 2022, 18, 81-90.	8.0	141
6	Synthesis of the Docosanasaccharide Arabinan Domain of Mycobacterial Arabinogalactan and a Proposed Octadecasaccharide Biosynthetic Precursor. Journal of the American Chemical Society, 2007, 129, 9885-9901.	13.7	136
7	Recent advances in the synthesis of 2-deoxy-glycosides. Carbohydrate Research, 2009, 344, 1911-1940.	2.3	136
8	Computational Analysis of the Potential Energy Surfaces of Glycerol in the Gas and Aqueous Phases:Â Effects of Level of Theory, Basis Set, and Solvation on Strongly Intramolecularly Hydrogen-Bonded Systems. Journal of the American Chemical Society, 2001, 123, 11743-11754.	13.7	133
9	The mannose cap of mycobacterial lipoarabinomannan does not dominate the Mycobacteriumâ€“host interaction. Cellular Microbiology, 2008, 10, 930-944.	2.1	124
10	Conformational Analysis of Furanoside-Containing Mono- and Oligosaccharides. Chemical Reviews, 2013, 113, 1851-1876.	47.7	117
11	Association of Human Antibodies to Arabinomannan With Enhanced Mycobacterial Opsonophagocytosis and Intracellular Growth Reduction. Journal of Infectious Diseases, 2016, 214, 300-310.	4.0	110
12	Expression, Purification, and Characterization of a Galactofuranosyltransferase Involved inMycobacterium tuberculosisArabinogalactan Biosynthesis. Journal of the American Chemical Society, 2006, 128, 6721-6729.	13.7	109
13	2,3-Anhydro Sugars in Glycoside Bond Synthesis. Highly Stereoselective Syntheses of Oligosaccharides Containing Î±- and Î²-Arabinofuranosyl Linkages. Journal of the American Chemical Society, 2003, 125, 4155-4165.	13.7	100
14	Galactosyl Transferases in Mycobacterial Cell Wall Synthesis. Journal of Bacteriology, 2008, 190, 1141-1145.	2.2	98
15	Recognition of synthetic O-methyl, epimeric, and amino analogues of the acceptor Î±-L-Fucp-(1 â†') Tj ETQq1 1 0.784314 rgBT /Overlo	2.3	97
16	A Novel Sensitive Immunoassay Targeting the 5-Methylthio- <scp>d</scp> -Xylofuranoseâ€“Lipoarabinomannan Epitope Meets the WHO's Performance Target for Tuberculosis Diagnosis. Journal of Clinical Microbiology, 2018, 56, .	3.9	95
17	Arabinofuranosyl Oligosaccharides from Mycobacteria:Â Synthesis and Effect of Glycosylation on Ring Conformation and Hydroxymethyl Group Rotamer Populations. Journal of the American Chemical Society, 2000, 122, 1251-1260.	13.7	93
18	Conserved glycolipid termini in capsular polysaccharides synthesized by ATP-binding cassette transporter-dependent pathways in Gram-negative pathogens. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7868-7873.	7.1	89

#	Article	IF	Citations
19	Biosynthesis of mycobacterial arabinogalactan: identification of a novel Î±(1â†'3) arabinofuranosyltransferase. Molecular Microbiology, 2008, 69, 1191-1206.	2.5	88
20	Arabinofuranosides from Mycobacteria:Â Synthesis of a Highly Branched Hexasaccharide and Related Fragments Containing Î²-Arabinofuranosyl Residues. Journal of Organic Chemistry, 2002, 67, 892-903.	3.2	87
21	Identification of the mycobacterial carbohydrate structure that binds the C-type lectins DC-SIGN, L-SIGN and SIGNR1. Immunobiology, 2004, 209, 117-127.	1.9	87
22	2,3-Anhydrosugars in Glycoside Bond Synthesis. NMR and Computational Investigations into the Mechanism of Glycosylations with 2,3-Anhydrofuranosyl Glycosyl Sulfoxides. Journal of the American Chemical Society, 2003, 125, 13112-13119.	13.7	85
23	Synthesis of Galactofuranose-Containing Acceptor Substrates for Mycobacterial Galactofuranosyltransferases. Journal of Organic Chemistry, 2008, 73, 4513-4525.	3.2	80
24	ABO(H) Blood Group A and B Glycosyltransferases Recognize Substrate via Specific Conformational Changes. Journal of Biological Chemistry, 2008, 283, 10097-10108.	3.4	78
25	Ligand Specificity of CS-35, a Monoclonal Antibody That Recognizes Mycobacterial Lipoarabinomannan:â€‰A Model System for Oligofuranosideâ^'Protein Recognition. Journal of the American Chemical Society, 2007, 129, 10489-10502.	13.7	77
26	Oligosaccharide Mimetics Obtained by Novel, Rapid Screening of Carboxylic Acid Encoded Glycopeptide Libraries. Journal of the American Chemical Society, 1998, 120, 13312-13320.	13.7	76
27	Synthesis and conformational analysis of arabinofuranosides, galactofuranosides and fructofuranosides. Current Opinion in Chemical Biology, 2003, 7, 749-756.	6.1	74
28	Enhanced control of Mycobacterium tuberculosis extrapulmonary dissemination in mice by an arabinomannan-protein conjugate vaccine. PLoS Pathogens, 2017, 13, e1006250.	4.7	74
29	Sequence Analysis of the GntII (Subsidiary) System for Gluconate Metabolism Reveals a Novel Pathway for <scp>l</scp> -Idonic Acid Catabolism in Escherichia coli. Journal of Bacteriology, 1998, 180, 3704-3710.	2.2	73
30	Recognition of synthetic deoxy and deoxyfluoro analogs of the acceptor Î±-l-Fucp-(1 â†' 2)-Î²-d-Galp-OR by the blood-group A and B gene-specified glycosyltransferases. Carbohydrate Research, 1993, 249, 163-195.	2.3	71
31	Characterization of the epitope of anti-lipoarabinomannan antibodies as the terminal hexaarabinofuranosyl motif of mycobacterial arabinans. Microbiology (United Kingdom), 2002, 148, 3049-3057.	1.8	67
32	Insights into Interactions of Mycobacteria with the Host Innate Immune System from a Novel Array of Synthetic Mycobacterial Glycans. ACS Chemical Biology, 2017, 12, 2990-3002.	3.4	66
33	The 5-Deoxy-5-methylthio-xylofuranose Residue in Mycobacterial Lipoarabinomannan. Absolute Stereochemistry, Linkage Position, Conformation, and Immunomodulatory Activity. Journal of the American Chemical Society, 2006, 128, 5059-5072.	13.7	64
34	Sugar-Substituted Poly(p-phenyleneethynylene)s: Sensitivity Enhancement toward Lectins and Bacteria. Macromolecules, 2008, 41, 7316-7320.	4.8	64
35	Synthetic arabinofuranosyl oligosaccharides as Mycobacterial arabinosyltransferase substrates. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 437-442.	2.2	61
36	2,3-Anhydrosugars in Glycoside Bond Synthesis. Application to Î±-d-Galactofuranosides. Journal of Organic Chemistry, 2006, 71, 9658-9671.	3.2	61

#	Article	IF	Citations
37	Î²-Selective Arabinofuranosylation Using a 2,3-O-Xylylene-Protected Donor. Organic Letters, 2010, 12, 3686-3689.	4.6	60
38	The First Total Synthesis of a Highly Branched Arabinofuranosyl Hexasaccharide Found at the Nonreducing Termini of Mycobacterial Arabinogalactan and Lipoarabinomannan. Organic Letters, 2000, 2, 1493-1495.	4.6	59
39	Synthesis and Antituberculosis Activity of C-Phosphonate Analogues of Decaprenolphosphoarabinose, a Key Intermediate in the Biosynthesis of Mycobacterial Arabinogalactan and Lipoarabinomannan. Journal of Organic Chemistry, 2002, 67, 8862-8870.	3.2	59
40	Characterization of the Antigenic Heterogeneity of Lipoarabinomannan, the Major Surface Glycolipid of Mycobacterium tuberculosis, and Complexity of Antibody Specificities toward This Antigen. Journal of Immunology, 2018, 200, 3053-3066.	0.8	58
41	Stereocontrolled Synthesis of 2,3-Anhydro-Î²-d-lyxofuranosyl Glycosides. Organic Letters, 2001, 3, 607-610.	4.6	57
42	Novel Type of Rigid C-Linked Glycosylacetyleneâ^'Phenylalanine Building Blocks for Combinatorial Synthesis of C-linked Glycopeptides. Journal of Organic Chemistry, 1998, 63, 9657-9668.	3.2	56
43	Synthesis and Conformational Investigation of Methyl 4a-Carba-d-arabinofuranosides. Journal of Organic Chemistry, 2001, 66, 8961-8972.	3.2	56
44	Twenty Years of Mycobacterial Glycans: Furanosides and Beyond. Accounts of Chemical Research, 2016, 49, 1379-1388.	15.6	56
45	Basis for selection of improved carbohydrate-binding single-chain antibodies from synthetic gene libraries.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4992-4996.	7.1	55
46	Synthesis of Daunorubicin Analogues Containing Truncated Aromatic Cores and Unnatural Monosaccharide Residues. Journal of Organic Chemistry, 2007, 72, 2917-2928.	3.2	54
47	Tetrameric Structure of the GlfT2 Galactofuranosyltransferase Reveals a Scaffold for the Assembly of Mycobacterial Arabinogalactan. Journal of Biological Chemistry, 2012, 287, 28132-28143.	3.4	53
48	Diagnostic accuracy of 3 urine lipoarabinomannan tuberculosis assays in HIV-negative outpatients. Journal of Clinical Investigation, 2020, 130, 5756-5764.	8.2	53
49	Biocompatible Carbohydrate-Functionalized Stainless Steel Surfaces: A New Method For Passivating Biomedical Implants. ACS Applied Materials & Interfaces, 2011, 3, 1601-1612.	8.0	52
50	Chemical Synthesis of Furanose Glycosides. Trends in Glycoscience and Glycotechnology, 2011, 23, 134-152.	0.1	52
51	The Three Mycobacterium tuberculosis Antigen 85 Isoforms Have Unique Substrates and Activities Determined by Non-active Site Regions. Journal of Biological Chemistry, 2014, 289, 25041-25053.	3.4	52
52	Sensitive electrochemiluminescence (ECL) immunoassays for detecting lipoarabinomannan (LAM) and ESAT-6 in urine and serum from tuberculosis patients. PLoS ONE, 2019, 14, e0215443.	2.5	51
53	A Glycosylation Protocol Based on Activation of Glycosyl 2-Pyridyl Sulfones with Samarium Triflate. Organic Letters, 2000, 2, 1505-1508.	4.6	50
54	Glycosyl iodides. History and recent advances. Carbohydrate Research, 2009, 344, 1110-1122.	2.3	50

#	Article	IF	Citations
55	Chemistry and biology of arabinofuranosyl- and galactofuranosyl-containing polysaccharides. Current Opinion in Chemical Biology, 2001, 5, 677-682.	6.1	48
56	Conformational Analysis of Furanose Rings with PSEUROT:Â Parametrization for Rings Possessing the Arabino, Lyxo, Ribo, and Xylo Stereochemistry and Application to Arabinofuranosides. Journal of Organic Chemistry, 2002, 67, 4647-4651.	3.2	48
57	Development of a coupled spectrophotometric assay for GlfT2, a bifunctional mycobacterial galactofuranosyltransferase. Carbohydrate Research, 2008, 343, 2130-2139.	2.3	48
58	Structural Insights into Antibody Recognition of Mycobacterial Polysaccharides. Journal of Molecular Biology, 2009, 392, 381-392.	4.2	48
59	Biological Roles of the O-Methyl Phosphoramidate Capsule Modification in Campylobacter jejuni. PLoS ONE, 2014, 9, e87051.	2.5	48
60	Detection of lipoarabinomannan in urine and serum of HIV-positive and HIV-negative TB suspects using an improved capture-enzyme linked immuno absorbent assay and gas chromatography/mass spectrometry. Tuberculosis, 2018, 111, 178-187.	1.9	48
61	STDâ€NMR Studies Suggest that Two Acceptor Substrates for GlfT2, a Bifunctional Galactofuranosyltransferase Required for the Biosynthesis of Mycobacterium tuberculosis Arabinogalactan, Compete for the Same Binding Site. ChemBioChem, 2009, 10, 2052-2059.	2.6	47
62	Synthetic UDP-Furanoses as Potent Inhibitors of Mycobacterial Galactan Biogenesis. Chemistry and Biology, 2010, 17, 1356-1366.	6.0	46
63	Characterization of recombinant UDP-galactopyranose mutase from Aspergillus fumigatus. Archives of Biochemistry and Biophysics, 2010, 502, 31-38.	3.0	46
64	Recent Progress Towards the Identification of Inhibitors of Mycobacterial Cell Wall Polysaccharide Biosynthesis. Mini-Reviews in Medicinal Chemistry, 2003, 3, 689-702.	2.4	46
65	Total Synthesis of Both Methyl 4a-Carba-d-arabinofuranosides. Organic Letters, 2000, 2, 167-169.	4.6	45
66	Nippostrongylus brasiliensis: Identification of intelectin-1 and -2 as Stat6-dependent genes expressed in lung and intestine during infection. Experimental Parasitology, 2007, 116, 458-466.	1.2	45
67	Cytotoxicity and topoisomerase I/II inhibition of glycosylated 2-phenyl-indoles, 2-phenyl-benzo[b]thiophenes and 2-phenyl-benzo[b]furans. Bioorganic and Medicinal Chemistry, 2011, 19, 603-612.	3.0	45
68	Synthesis ofl-Daunosamine andl-Ristosamine Glycosides via Photoinduced Aziridination. Conversion to Thioglycosides for Use in Glycosylation Reactions. Journal of Organic Chemistry, 2006, 71, 8059-8070.	3.2	43
69	2,3-Anhydrosugars in Glycoside Bond Synthesis: Mechanism of 2-Deoxy-2-thioaryl Glycoside Formation. Journal of the American Chemical Society, 2009, 131, 12937-12948.	13.7	43
70	Tulane Virus Recognizes the A Type 3 and B Histo-Blood Group Antigens. Journal of Virology, 2015, 89, 1419-1427.	3.4	43
71	Bacterial Î²-Kdo glycosyltransferases represent a new glycosyltransferase family (GT99). Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3120-9.	7.1	43
72	Mechanisms of pyrolysis of polysaccharides: Cellobiitol as a model for cellulose. Carbohydrate Research, 1990, 198, 79-89.	2.3	42

#	Article	IF	Citations
73	Suzuki Cross-Coupling Reactions: Synthesis of Unsymmetrical Biaryls in the Organic Laboratory. Journal of Chemical Education, 2001, 78, 947.	2.3	42
74	Sensitivity of1JC1-H1Magnitudes to Anomeric Stereochemistry in 2,3-Anhydro-O-furanosides. Journal of Organic Chemistry, 2001, 66, 4549-4558.	3.2	42
75	Solid-state 17O NMR in carbohydrates. Chemical Physics Letters, 2007, 434, 312-315.	2.6	42
76	Recent advances in mycobacterial cell wall glycan biosynthesis. Current Opinion in Chemical Biology, 2009, 13, 618-625.	6.1	42
77	Molecular Basis of Arabinobio-hydrolase Activity in Phytopathogenic Fungi. Journal of Biological Chemistry, 2009, 284, 12285-12296.	3.4	42
78	Lcp1 Is a Phosphotransferase Responsible for Ligating Arabinogalactan to Peptidoglycan in Mycobacterium tuberculosis. MBio, 2016, 7, .	4.1	42
79	Molecular basis for the structural diversity in serogroup O2-antigen polysaccharides in Klebsiella pneumoniae. Journal of Biological Chemistry, 2018, 293, 4666-4679.	3.4	42
80	Biosynthesis of the Polymannose Lipopolysaccharide O-antigens from Escherichia coli Serotypes O8 and O9a Requires a Unique Combination of Single- and Multiple-active Site Mannosyltransferases. Journal of Biological Chemistry, 2012, 287, 35078-35091.	3.4	41
81	Conversion of Pyranose Glycals to Furanose Derivatives:Â A New Route to Oligofuranosides. Journal of Organic Chemistry, 1998, 63, 9037-9044.	3.2	40
82	Synthesis of oligosaccharide fragments of mannosylated lipoarabinomannan from Mycobacterium tuberculosis. Tetrahedron, 1999, 55, 5965-5976.	1.9	40
83	Synthesis of a Pentasaccharide Fragment of Varianose, a Cell Wall Polysaccharide fromPenicillium varians. Journal of Organic Chemistry, 2006, 71, 9672-9680.	3.2	39
84	Capsular glycan recognition provides antibody-mediated immunity against tuberculosis. Journal of Clinical Investigation, 2020, 130, 1808-1822.	8.2	38
85	Water-soluble photoluminescent <scp>d</scp>-mannose and <scp>l</scp>-alanine functionalized silicon nanocrystals and their application to cancer cell imaging. Journal of Materials Chemistry B, 2014, 2, 8427-8433.	5.8	37
86	Conformational Studies of Methyl 3-O-Methyl-Î±-d-arabinofuranoside:â€‰ An Approach for Studying the Conformation of Furanose Rings. Journal of the American Chemical Society, 2001, 123, 8811-8824.	13.7	36
87	Improved Karplus Equations for3JC1,H4in Aldopentofuranosides:Â Application to the Conformational Preferences of the Methyl Aldopentofuranosides. Journal of Physical Chemistry A, 2003, 107, 372-378.	2.5	36
88	2,3-Anhydrosugars in Glycoside Bond Synthesis. Application to 2,6-Dideoxypyranosides. Journal of Organic Chemistry, 2009, 74, 2278-2289.	3.2	36
89	Synthesis and DNA-binding affinity studies of glycosylated intercalators designed as functional mimics of the anthracycline antibiotics. Organic and Biomolecular Chemistry, 2009, 7, 3709.	2.8	36
90	In Vitro Reconstruction of the Chain Termination Reaction in Biosynthesis of the Escherichia coli O9a O-Polysaccharide. Journal of Biological Chemistry, 2011, 286, 41391-41401.	3.4	36

#	Article	IF	Citations
91	ABH-Glycan Microarray Characterizes ABO Subtype Antibodies: Fine Specificity of Immune Tolerance After ABO-Incompatible Transplantation. American Journal of Transplantation, 2016, 16, 1548-1558.	4.7	36
92	Probing Furanose Ring Conformation by Gas-Phase Computational Methods:Â Energy Profile and Structural Parameters in Methyl Î²-d-Arabinofuranoside as a Function of Ring Conformation. Journal of Organic Chemistry, 2000, 65, 4954-4963.	3.2	35
93	Synthesis of arabinofuranosides via low-temperature activation of thioglycosides. Tetrahedron Letters, 2001, 42, 5829-5832.	1.4	35
94	A multiplexed and miniaturized serological tuberculosis assay identifies antigens that discriminate maximally between TB and non-TB sera. Journal of Immunological Methods, 2005, 301, 154-163.	1.4	35
95	Total Synthesis of (2S,3S,5S,10S)- 6,9-Epoxynonadec-18-ene-7,10-diol and Formal Total Synthesis of (+)-trans-Kumausyne fromd-Arabinose. Journal of Organic Chemistry, 2001, 66, 9046-9051.	3.2	34
96	Naturally occurring and synthetic polyyne glycosides. Canadian Journal of Chemistry, 2009, 87, 1565-1582.	1.1	34
97	Chemical Basis for Qualitative and Quantitative Differences Between ABO Blood Groups and Subgroups: Implications for Organ Transplantation. American Journal of Transplantation, 2015, 15, 2602-2615.	4.7	34
98	Galactofuranose in <scp>M</scp>ycoplasma mycoides is important for membrane integrity and conceals adhesins but does not contribute to serum resistance. Molecular Microbiology, 2016, 99, 55-70.	2.5	34
99	A Computational Study of Methyl Î±-D-Arabinofuranoside:â€‰ Effect of Ring Conformation on Structural Parameters and Energy Profile. Journal of the American Chemical Society, 1999, 121, 9682-9692.	13.7	33
100	Synthesis of ABO histo-blood group type I and II antigens. Carbohydrate Research, 2010, 345, 2305-2322.	2.3	33
101	Genetically encoded multivalent liquid glycan array displayed on M13 bacteriophage. Nature Chemical Biology, 2021, 17, 806-816.	8.0	33
102	Synthesis of a Pentasaccharide Epitope for the Investigation of Carbohydrate-Protein Interactions. Journal of Organic Chemistry, 1995, 60, 7316-7327.	3.2	32
103	Domain Organization of the Polymerizing Mannosyltransferases Involved in Synthesis of the Escherichia coli O8 and O9a Lipopolysaccharide O-antigens. Journal of Biological Chemistry, 2012, 287, 38135-38149.	3.4	32
104	A Convenient Synthesis of 2-(Alkylamino)pyridines. Journal of Organic Chemistry, 2002, 67, 4965-4967.	3.2	31
105	Probing the acceptor substrate binding site of Trypanosoma cruzi trans-sialidase with systematically modified substrates and glycoside libraries. Organic and Biomolecular Chemistry, 2011, 9, 1653.	2.8	31
106	Single polysaccharide assembly protein that integrates polymerization, termination, and chain-length quality control. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1215-E1223.	7.1	31
107	Biosynthesis of a conserved glycolipid anchor for Gram-negative bacterial capsules. Nature Chemical Biology, 2019, 15, 632-640.	8.0	31
108	Synthesis of Oligosaccharide Fragments of Mannosylated Lipoarabinomannan Appropriately Functionalized for Neoglycoconjugate Preparation. Journal of Carbohydrate Chemistry, 2003, 22, 459-480.	1.1	30

#	Article	IF	Citations
109	Characterization of a Bifunctional Pyranose-Furanose Mutase from Campylobacter jejuni 11168. Journal of Biological Chemistry, 2010, 285, 493-501.	3.4	30
110	Gas- and Solution-Phase Energetics of the Methyl Î±- and Î²-d-Aldopentofuranosides. Journal of Physical Chemistry A, 2003, 107, 5763-5777.	2.5	29
111	Solid-phase synthesis of a fucosylated glycopeptide of human factor IX with a fucose-Î±-(1â†'O)-serine linkage. Journal of the Chemical Society Perkin Transactions 1, 1995, , 3017-3022.	0.9	28
112	Intracellular inhibition of blood group A glycosyltransferase. FEBS Journal, 2000, 267, 4840-4849.	0.2	28
113	Modified mannose disaccharides as substrates and inhibitors of a polyprenol monophosphomannose-dependent Î±-(1â†'6)-mannosyltransferase involved in mycobacterial lipoarabinomannan biosynthesis. Bioorganic and Medicinal Chemistry, 2005, 13, 1083-1094.	3.0	28
114	Synthetic disaccharide analogs as potential substrates and inhibitors of a mycobacterial polyprenol monophosphomannose-dependent Î±-(1â†'6)-mannosyltransferase. Tetrahedron: Asymmetry, 2005, 16, 553-567.	1.8	28
115	Synthesis of deoxy and methoxy analogs of octyl Î±-d-mannopyranosyl-(1â†'6)-Î±-d-mannopyranoside as probes for mycobacterial lipoarabinomannan biosynthesis. Carbohydrate Research, 2007, 342, 1741-1772.	2.3	28
116	Synthesis of Carbohydrate Methyl Phosphoramidates. Organic Letters, 2014, 16, 2518-2521.	4.6	28
117	Development of an Orthogonal Protection Strategy for the Synthesis of Mycobacterial Arabinomannan Fragments. Journal of Organic Chemistry, 2015, 80, 11417-11434.	3.2	28
118	Synthesis of the Campylobacter jejuni 81â€176 Strain Capsular Polysaccharide Repeating Unit Reveals the Absolute Configuration of its Oâ€Methyl Phosphoramidate Motif. Angewandte Chemie - International Edition, 2018, 57, 15592-15596.	13.8	28
119	Oligofuranosides Containing Conformationally Restricted Residues:Â Synthesis and Conformational Analysis. Journal of Organic Chemistry, 2002, 67, 4150-4164.	3.2	27
120	Sulfone and phosphinic acid analogs of decaprenolphosphoarabinose as potential anti-tuberculosis agents. Bioorganic and Medicinal Chemistry, 2004, 12, 5495-5503.	3.0	27
121	Synthesis and NMR studies on the ABO histo-blood group antigens: synthesis of type III and IV structures and NMR characterization of type Iâ€"VI antigens. Carbohydrate Research, 2011, 346, 1406-1426.	2.3	27
122	Synthesis of sugarâ€"amino acidâ€"nucleosides as potential glycosyltransferase inhibitors. Bioorganic and Medicinal Chemistry, 2011, 19, 58-66.	3.0	27
123	Mycobacterial Phenolic Glycolipids with a Simplified Lipid Aglycone Modulate Cytokine Levels through Tollâ€Like Receptor 2. ChemBioChem, 2013, 14, 2153-2159.	2.6	27
124	Cryo-EM Structures and Regulation of Arabinofuranosyltransferase AftD from Mycobacteria. Molecular Cell, 2020, 78, 683-699.e11.	9.7	27
125	2,3-Anhydrosugars in glycoside bond synthesis. Application to the preparation of C-2 functionalized Î±-d-arabinofuranosides. Tetrahedron, 2004, 60, 1481-1489.	1.9	26
126	Comparison between DFT- and NMR-based conformational analysis of methyl galactofuranosides. Carbohydrate Research, 2013, 374, 103-114.	2.3	26

#	Article	IF	Citations
127	A bifunctional O-antigen polymerase structure reveals a new glycosyltransferase family. Nature Chemical Biology, 2020, 16, 450-457.	8.0	26
128	Synthesis of oligosaccharides as potential inhibitors of mycobacterial arabinosyltransferases. Di- and trisaccharides containing C-5 modified arabinofuranosyl residues. Carbohydrate Research, 2004, 339, 853-865.	2.3	25
129	Conformational Analysis of Arabinofuranosides: Prediction of ³J_{H,H} Using MD Simulations with DFT-Derived Spinâ'Spin Coupling Profiles. Journal of Chemical Theory and Computation, 2010, 6, 212-222.	5.3	25
130	Context and complexity: The next big thing in synthetic glycobiology. Current Opinion in Chemical Biology, 2013, 17, 990-996.	6.1	25
131	Inhibition of Cytokine Release by Mycobacterium tuberculosis Phenolic Glycolipid Analogues. ChemBioChem, 2014, 15, 1176-1182.	2.6	25
132	Recognition of synthetic analogues of the acceptor, Î²-d-Gal p-OR, by the blood-group H gene-specified glycosyltransferase. Carbohydrate Research, 1994, 256, 257-273.	2.3	24
133	d-ARABINOFURANOSIDES FROM MYCOBACTERIA: SYNTHESIS AND CONFORMATION. Journal of Carbohydrate Chemistry, 2002, 21, 691-722.	1.1	24
134	Approach for the Simulation and Modeling of Flexible Rings:â€‰ Application to the Î±-<scp>d</scp>-Arabinofuranoside Ring, a Key Constituent of Polysaccharides from Mycobacterium tuberculosis. Journal of Chemical Theory and Computation, 2008, 4, 184-191.	5.3	24
135	The Overall Architecture and Receptor Binding of Pneumococcal Carbohydrate-Antigen-Hydrolyzing Enzymes. Journal of Molecular Biology, 2011, 411, 1017-1036.	4.2	24
136	Probing the Effect of Acylation on Arabinofuranose Ring Conformation in Di- and Trisaccharide Fragments of Mycobacterial Arabinogalactan. Journal of Organic Chemistry, 2010, 75, 4992-5007.	3.2	24
137	A Bispecific Antibody Based Assay Shows Potential for Detecting Tuberculosis in Resource Constrained Laboratory Settings. PLoS ONE, 2012, 7, e32340.	2.5	24
138	Synthesis of Methyl 2,3,5-Tri-O-benzoyl-Î±[alpha]-d-arabinofuranoside in the Organic Laboratory. Journal of Chemical Education, 2001, 78, 73.	2.3	23
139	Computational Studies of the Arabinofuranose Ring:Â Conformational Preferences of Fully Relaxed Methyl Î±-d-arabinofuranoside. Journal of Physical Chemistry A, 2001, 105, 5911-5922.	2.5	23
140	Synthetic UDP-galactofuranose analogs reveal critical enzymeâ€“substrate interactions in GlfT2-catalyzed mycobacterial galactan assembly. Organic and Biomolecular Chemistry, 2012, 10, 4074.	2.8	23
141	Biosynthesis of the Methylthioxylose Capping Motif of Lipoarabinomannan in Mycobacterium tuberculosis. ACS Chemical Biology, 2017, 12, 682-691.	3.4	23
142	Stereoselective Synthesis of 2-Deoxy-furanosides from 2,3-Anhydro-furanosyl Thioglycosides. Organic Letters, 2007, 9, 4487-4490.	4.6	22
143	Synthesis of Bicyclo[3.1.0]hexane Derivatives as Conformationally Restricted Analogues of Î²-Arabinofuranosyl and Î±-Galactofuranosyl Rings. Organic Letters, 2008, 10, 881-884.	4.6	22
144	Theoretical Investigations on the Conformation of the Î²-<scp>d</scp>-Arabinofuranoside Ring. Journal of Chemical Theory and Computation, 2011, 7, 420-432.	5.3	22

#	Article	IF	Citations
145	Biochemical Characterization of Bifunctional 3-Deoxy-Î²-d-manno-oct-2-ulosonic Acid (Î²-Kdo) Transferase KpsC from Escherichia coli Involved in Capsule Biosynthesis. Journal of Biological Chemistry, 2016, 291, 21519-21530.	3.4	22
146	Synthesis of Unprecedented Sulfonylated Phosphonoâ€‹exoâ€‹Glycals Designed as Inhibitors of the Three Mycobacterial Galactofuranose Processing Enzymes. Chemistry - A European Journal, 2016, 22, 15913-15920.	3.3	22
147	Synthesis of conjugates ofL-fucose andortho-carborane as potential agents for boron neutron capture therapy. Canadian Journal of Chemistry, 2002, 80, 943-948.	1.1	21
148	Synthesis of ABO Histo-Blood Group Type V and VI Antigens. Australian Journal of Chemistry, 2009, 62, 558.	0.9	21
149	Conformational Analysis of Oligoarabinofuranosides: Overcoming Torsional Barriers with Umbrella Sampling. Journal of Chemical Theory and Computation, 2011, 7, 2989-3000.	5.3	21
150	High-Throughput â€œFP-Tagâ€•Assay for the Identification of Glycosyltransferase Inhibitors. Journal of the American Chemical Society, 2019, 141, 2201-2204.	13.7	21
151	Determination of the absolute configurations of bicyclo[3.1.0]hexane derivatives via electronic circular dichroism, optical rotation dispersion and vibrational circular dichroism spectroscopy and density functional theory calculations. Organic and Biomolecular Chemistry, 2010, 8, 3777.	2.8	20
152	Studies on the substrate specificity of a GDP-mannose pyrophosphorylase from Salmonella enterica. Beilstein Journal of Organic Chemistry, 2012, 8, 1219-1226.	2.2	20
153	Lipooligosaccharides from Mycobacteria: Structure, Function, and Synthesis. Israel Journal of Chemistry, 2015, 55, 360-372.	2.3	20
154	Stereocontrolled Synthesis of Î±-Xylofuranosides Using a Conformationally Restricted Donor. Journal of Organic Chemistry, 2018, 83, 7659-7671.	3.2	20
155	Klebsiella pneumoniae O1 and O2ac antigens provide prototypes for an unusual strategy for polysaccharide antigen diversification. Journal of Biological Chemistry, 2019, 294, 10863-10876.	3.4	20
156	Total Synthesis of Buergerinin F and Buergerinin G. Journal of Organic Chemistry, 2003, 68, 4116-4119.	3.2	19
157	Oligosaccharides as inhibitors of mycobacterial arabinosyltransferases. Di- and trisaccharides containing C-3 modified arabinofuranosyl residues. Bioorganic and Medicinal Chemistry, 2005, 13, 1369-1379.	3.0	19
158	Synthesis of 2-deoxy-2-fluoro analogs of polyprenyl Î²-d-arabinofuranosyl phosphates. Carbohydrate Research, 2006, 341, 2723-2730.	2.3	19
159	An olefin cross metathesis approach to C-disaccharide analogs of the Î±-d-arabinofuranosyl-(1â†’5)-Î±-d-arabinofuranoside motif found in the mycobacterial cell wall. Tetrahedron Letters, 2006, 47, 4561-4564.	1.4	19
160	Exploring the Substrate Specificity of a Mycobacterial Polyprenol Monophosphomannoseâ€Dependent Î±â€(1â†’6)â€Mannosyltransferase. ChemBioChem, 2008, 9, 267-278.	2.6	19
161	Transfer of the First Arabinofuranose Residue to Galactan Is Essential for Mycobacterium smegmatis Viability. Journal of Bacteriology, 2008, 190, 5248-5255.	2.2	19
162	Methods to Study the Biosynthesis of Bacterial Furanosides. Methods in Enzymology, 2010, 478, 389-411.	1.0	19

#	Article	IF	Citations
163	The Galactosamine Residue in Mycobacterial Arabinogalactan Is Î±-Linked. Journal of Organic Chemistry, 2012, 77, 9826-9832.	3.2	19
164	Domain Interactions Control Complex Formation and Polymerase Specificity in the Biosynthesis of the Escherichia coli O9a Antigen. Journal of Biological Chemistry, 2015, 290, 1075-1085.	3.4	19
165	Disruption of the SucT acyltransferase in Mycobacterium smegmatis abrogates succinylation of cell envelope polysaccharides. Journal of Biological Chemistry, 2019, 294, 10325-10335.	3.4	19
166	STD-NMR studies of two acceptor substrates of GlfT2, a galactofuranosyltransferase from Mycobacterium tuberculosis: Epitope mapping studies. Bioorganic and Medicinal Chemistry, 2010, 18, 5123-5128.	3.0	18
167	Effect of phenolic glycolipids from Mycobacterium kansasii on proinflammatory cytokine release. A structureâ€“activity relationship study. Chemical Science, 2015, 6, 3161-3172.	7.4	18
168	High Resolution Structures of the Human ABO(H) Blood Group Enzymes in Complex with Donor Analogs Reveal That the Enzymes Utilize Multiple Donor Conformations to Bind Substrates in a Stepwise Manner. Journal of Biological Chemistry, 2015, 290, 27040-27052.	3.4	18
169	Chemical Insight into the Mechanism and Specificity of GlfT2, a Bifunctional Galactofuranosyltransferase from Mycobacteria. Journal of Organic Chemistry, 2016, 81, 8123-8130.	3.2	18
170	Epitope mapping of histo blood group antigens bound to norovirus VLPs using STD NMR experiments reveals fine details of molecular recognition. Glycoconjugate Journal, 2017, 34, 679-689.	2.7	18
171	New insights into lipopolysaccharide assembly and export. Current Opinion in Chemical Biology, 2019, 53, 37-43.	6.1	18
172	Conformational Studies of Methyl Î²-<scp>d</scp>-Arabinofuranoside Using the AMBER/GLYCAM Approach. Journal of Chemical Theory and Computation, 2009, 5, 430-438.	5.3	17
173	Synthesis and NMR spectroscopic analysis of acylated pentasaccharide fragments of mycobacterial arabinogalactan. Organic and Biomolecular Chemistry, 2011, 9, 165-176.	2.8	17
174	Carbasugar Analogues of Galactofuranosides: Pseudodisaccharide Mimics of Fragments of Mycobacterial ArabinoÂgalactan. European Journal of Organic Chemistry, 2011, 2011, 1367-1375.	2.4	17
175	Mycobacterial Cell Wall Components. , 2001, , 2005-2080.		17
176	Synthesis of octyl arabinofuranosides as substrates for mycobacterial arabinosyltransferases. Carbohydrate Research, 2003, 338, 581-588.	2.3	16
177	Synthesis of Unusual N-Acylated Aminosugar Fragments of Mycobacterium marinum Lipooligosaccharide IV. Journal of Organic Chemistry, 2015, 80, 2767-2780.	3.2	16
178	Absolute Configuration and Conformation of Two FrÃ¡terâ€“Seebach Alkylation Reaction Products by Film VCD and ECD Spectroscopic Analyses. Journal of Organic Chemistry, 2015, 80, 428-437.	3.2	16
179	Construction of Multivalent Homo- and Heterofunctional ABO Blood Group Glycoconjugates Using a Trifunctional Linker Strategy. Bioconjugate Chemistry, 2018, 29, 343-362.	3.6	16
180	Characterization of ABH-subtype donor-specific antibodies in ABO-A-incompatible kidney transplantation. American Journal of Transplantation, 2021, 21, 3649-3662.	4.7	16

#	Article	IF	Citations
181	An Efficient Route for the Synthesis of Glycosyl Phosphinic Acids. Journal of Organic Chemistry, 2003, 68, 8115-8119.	3.2	15
182	Regioselective Polymethylation of Î±-(1 â†' 4)-Linked Mannopyranose Oligosaccharides. Journal of Organic Chemistry, 2013, 78, 2863-2880.	3.2	15
183	Synthesis of the Highly Branched Hexasaccharide Core of Chlorella Virus Nâ€Linked Glycans. Chemistry - A European Journal, 2018, 24, 16992-16996.	3.3	15
184	The N-glycan structures of the antigenic variants of chlorovirus PBCV-1 major capsid protein help to identify the virus-encoded glycosyltransferases. Journal of Biological Chemistry, 2019, 294, 5688-5699.	3.4	15
185	Stereospecific synthesis of 5-phospho-Î±-d-arabinosyl-C-phosphonophosphate (pACpp): a stable analogue of the putative mycobacterial cell wall biosynthetic intermediate 5-phospho-d-arabinosyl pyrophosphate (pApp). Tetrahedron Letters, 2001, 42, 2231-2234.	1.4	14
186	Carbohydrateâ€"Lipid Interactions: Affinities of Methylmannose Polysaccharides for Lipids in Aqueous Solution. Chemistry - A European Journal, 2012, 18, 12059-12067.	3.3	14
187	Specificity of a UDPâ€GalNAc Pyranoseâ€"Furanose Mutase: A Potential Therapeutic Target for Campylobacter jejuni Infections. ChemBioChem, 2014, 15, 47-56.	2.6	14
188	Oligosaccharides and Peptide Displayed on an Amphiphilic Polymer Enable Solid Phase Assay of Hapten Specific Antibodies. Bioconjugate Chemistry, 2014, 25, 685-697.	3.6	14
189	Genetically-encoded fragment-based discovery (GE-FBD) of glycopeptide ligands with differential selectivity for antibodies related to mycobacterial infections. Organic and Biomolecular Chemistry, 2018, 16, 223-227.	2.8	14
190	A Convergent Route to Enantiomers of the Bicyclic Monosaccharide Bradyrhizose Leads to Insight into the Bioactivity of an Immunologically Silent Lipopolysaccharide. Journal of Organic Chemistry, 2019, 84, 14-41.	3.2	14
191	Cryo-EM structure of arabinosyltransferase EmbB from Mycobacterium smegmatis. Nature Communications, 2020, 11, 3396.	12.8	14
192	The endogenous galactofuranosidase GlfH1 hydrolyzes mycobacterial arabinogalactan. Journal of Biological Chemistry, 2020, 295, 5110-5123.	3.4	14
193	Determination of the absolute configurations of synthetic daunorubicin analogues using vibrational circular dichroism spectroscopy and density functional theory. Chirality, 2010, 22, 734-743.	2.6	13
194	Epimeric and amino disaccharide analogs as probes of an Î±-(1â†'6)-mannosyltransferase involved in mycobacterial lipoarabinomannanbiosynthesis. Organic and Biomolecular Chemistry, 2010, 8, 181-192.	2.8	13
195	Synthesis of Nitrogen-Containing Furanose Sugar Nucleotides for Use as Enzymatic Probes. Organic Letters, 2014, 16, 212-215.	4.6	13
196	Stereocontrolled Synthesis of 2-Deoxy-galactopyranosides via Isopropylidene-Protected 6-O-Silylated Donors. Organic Letters, 2018, 20, 2287-2290.	4.6	13
197	Cycloheptaamylose as a model for starch in the pyrolysis of polysaccharides. Carbohydrate Research, 1991, 218, 157-166.	2.3	12
198	Oligosaccharide recognition by antibodies: Synthesis and evaluation of talose oligosaccharide analogues. Canadian Journal of Chemistry, 2002, 80, 1112-1130.	1.1	12

#	Article	IF	Citations
199	Identification of a Novel Mycobacterial Arabinosyltransferase Activity Which Adds an Arabinosyl Residue to Î±-<scp>d</scp>-Mannosyl Residues. ACS Chemical Biology, 2016, 11, 1518-1524.	3.4	12
200	Triazoleâ€Linked Iminosugars and Aromatic Systems as Simplified UDPâ€Galf Mimics: Synthesis and Preliminary Evaluation as Galfâ€Transferase Inhibitors. European Journal of Organic Chemistry, 2017, 2017, 6192-6201.	2.4	12
201	1-C-phosphonomethyl- and 1-C-difluorophosphonomethyl-1,4-imino-l-arabinitols as Galf transferase inhibitors: A comparison. Carbohydrate Research, 2018, 461, 45-50.	2.3	12
202	Chlorovirus PBCV-1 protein A064R has three of the transferase activities necessary to synthesize its capsid protein N-linked glycans. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28735-28742.	7.1	12
203	Monoclonal antibodies from humans with Mycobacterium tuberculosis exposure or latent infection recognize distinct arabinomannan epitopes. Communications Biology, 2021, 4, 1181.	4.4	12
204	A New Route to Carbohydrates Enriched with Oxygen Isotopes. Journal of Organic Chemistry, 1998, 63, 3166-3167.	3.2	11
205	Efficient syntheses of trans-(+)-laurediol from carbohydrate precursors. Tetrahedron: Asymmetry, 2003, 14, 737-742.	1.8	11
206	Structureâ€“activity relationships in glycosylated 2-phenyl-indoles, 2-phenyl-benzo[b]thiophenes and 2-phenyl-benzo[b]furans as DNA binding and potential antitumor agents. Bioorganic and Medicinal Chemistry, 2011, 19, 1779-1789.	3.0	11
207	Nucleophile induced rearrangements of thioglycosides: Formation of 6-thio glycosides and 16 thioanhydrosugars. Tetrahedron: Asymmetry, 1994, 5, 2397-2404.	1.8	10
208	Synthesis of Oligosaccharide Fragments of Mannosylated Lipoarabinomannan Appropriately Functionalized for Neoglycoconjugate Preparation. Journal of Carbohydrate Chemistry, 2003, 22, 149-170.	1.1	10
209	p-Tolyl 2-O-benzyl-3,5-O-(di-tert-butylsilanediyl)-1-thio-Î±-D-arabinofuranoside. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o498-o500.	0.2	10
210	Synthesis and antibacterial activity of aminosugar-functionalized intercalating agents. Carbohydrate Research, 2010, 345, 10-22.	2.3	10
211	Synthesis of the 6-O-Methyl-d-glycero-Î±-l-gluco-heptopyranose Moiety Present in the Capsular Polysaccharide fromCampylobacter jejuniNCTC 11168. Organic Letters, 2011, 13, 5290-5293.	4.6	10
212	Mycobacteriophage cell binding proteins for the capture of mycobacteria. Bacteriophage, 2014, 4, e960346.	1.9	10
213	De NovoAsymmetric Synthesis of Avocadyne, Avocadene, and Avocadane Stereoisomers. Journal of Organic Chemistry, 2019, 84, 15718-15725.	3.2	10
214	An efficient synthesis of methyl 2,3-anhydro-Î±-d-ribofuranoside. Carbohydrate Research, 2001, 330, 267-270.	2.3	9
215	Synthesis of 8-azidooctyl glycoside derivatives of the O-chain repeating unit of Escherichia coli O9a lipopolysaccharide and a methylated analog. Carbohydrate Research, 2008, 343, 1778-1789.	2.3	9
216	Revisiting the Specificity of an Î±-(1â†’4)-Mannosyltransferase Involved in Mycobacterial Methylmannose Polysaccharide Biosynthesis. ChemBioChem, 2012, 13, 1139-1151.	2.6	9

#	Article	IF	Citations
217	Specificity of Furanosideâ€“Protein Recognition through Antibody Engineering and Molecular Modeling. Chemistry - A European Journal, 2015, 21, 1138-1148.	3.3	9
218	De Novo Asymmetric Synthesis of a 6-O-Methyl-<scp>d</scp>-glycero-<scp>l</scp>-gluco-heptopyranose-Derived Thioglycoside for the Preparation of Campylobacter jejuni NCTC11168 Capsular Polysaccharide Fragments. Journal of Organic Chemistry, 2016, 81, 3058-3063.	3.2	9
219	Conjugation of A and B Blood Group Structures to Silica Microparticles for the Detection of Antigen-Specific B Cells. Bioconjugate Chemistry, 2016, 27, 705-715.	3.6	9
220	Synthesis of a Highly Branched Nonasaccharide Chlorella Virus N-Glycan Using a â€œCounterclockwiseâ€•Assembly Approach. Organic Letters, 2020, 22, 7645-7649.	4.6	9
221	Molecular ruler mechanism and interfacial catalysis of the integral membrane acyltransferase PatA. Science Advances, 2021, 7, eabj4565.	10.3	9
222	The singular Corynebacterium glutamicum Emb arabinofuranosyltransferase polymerises the Î±(1â€¯â†’â€¯5) arabinan backbone in the early stages of cell wall arabinan biosynthesis. Cell Surface, 2018, 2, 38-53.	3.0	8
223	An efficient route to thioglycosides with the 2,3-anhydro-d-ribo stereochemistry. Carbohydrate Research, 2004, 339, 2895-2899.	2.3	7
224	Synthesis of the â€˜primerâ€“adaptorâ€™ trisaccharide moiety of Escherichia coli O8, O9, and O9a lipopolysaccharide. Carbohydrate Research, 2007, 342, 2818-2825.	2.3	7
225	Studies toward the Development of Anti-Tuberculosis Vaccines Based on Mycobacterial Lipoarabinomannan. ACS Symposium Series, 2008, , 184-198.	0.5	7
226	Sulfonium ions as inhibitors of the mycobacterial galactofuranosyltransferase GlfT2. MedChemComm, 2014, 5, 1130-1137.	3.4	7
227	Synthesis of a homologous series of galactofuranose-containing mycobacterial arabinogalactan fragments. Canadian Journal of Chemistry, 2016, 94, 976-988.	1.1	7
228	Synthetic polyprenol-pyrophosphate linked oligosaccharides are efficient substrates for mycobacterial galactan biosynthetic enzymes. Organic and Biomolecular Chemistry, 2018, 16, 1939-1957.	2.8	7
229	Synthesis of the Campylobacter jejuni 81 â€•176 Strain Capsular Polysaccharide Repeating Unit Reveals the Absolute Configuration of its O â€Methyl Phosphoramidate Motif. Angewandte Chemie, 2018, 130, 15818-15822.	2.0	7
230	Cloning and Partial Characterization of an Endo-Î±-(1â†’6)-d-Mannanase Gene from Bacillus circulans. International Journal of Molecular Sciences, 2019, 20, 6244.	4.1	7
231	A Siloxane-Bridged Glycosyl Donor Enables Highly Stereoselective Î²-Xylulofuranosylation. Journal of Organic Chemistry, 2020, 85, 15895-15907.	3.2	7
232	Synthesis of structurally-defined polymeric glycosylated phosphoprenols as potential lipopolysaccharide biosynthetic probes. Chemical Science, 2021, 12, 12192-12200.	7.4	7
233	Unexpected formation of glycals upon attempted C-alkylation of protected glycosylacetylenes. Carbohydrate Research, 2000, 324, 210-217.	2.3	6
234	Regioselectivity in Alkylation Reactions of 1,2â€•Oâ€•Stannylene Acetals of dâ€Arabinofuranose. Journal of Carbohydrate Chemistry, 2003, 22, 963-981.	1.1	6

#	Article	IF	Citations
235	Amphiphilic Cytosolic Glycans from Mycobacteria: Occurrence, Lipidâ€Binding Properties, Biosynthesis, and Synthesis. Biopolymers, 2013, 99, 697-712.	2.4	6
236	Î²-Selective xylulofuranosylation via a conformationally-restricted glycosyl donor. Organic and Biomolecular Chemistry, 2020, 18, 2264-2273.	2.8	6
237	Synthesis of a Tridecasaccharide Lipooligosaccharide Antigen from the Opportunistic Pathogen Mycobacterium kansasii. Angewandte Chemie - International Edition, 2021, 60, 24859-24863.	13.8	6
238	Mycobacterial lipoarabinomannan fragments as haptens for potential anti-tuberculosis vaccines. Carbohydrate Chemistry, 0, , 38-63.	0.3	6
239	The Astounding World of Glycans from Giant Viruses. Chemical Reviews, 2022, 122, 15717-15766.	47.7	6
240	Synthesis of n-octyl 2,6-dideoxy-Î±-l-lyxo-hexopyranosyl-(1â†'2)-3-amino-3-deoxy-Î²-d-galactopyranoside, an analog of the H-disaccharide antigen. Carbohydrate Research, 2006, 341, 1702-1707.	2.3	5
241	2,3-Anhydrosugars in glycoside bond synthesis: application to furanosyl azides and C-glycosides. Tetrahedron, 2009, 65, 5916-5921.	1.9	5
242	Structure and Stability of Carbohydrateâ€“Lipid Interactions. Methylmannose Polysaccharideâ€“Fatty Acid Complexes. ChemBioChem, 2016, 17, 1571-1578.	2.6	5
243	Glycosylation With Furanosides. , 2021, , 267-285.		5
244	Structureâ€“activity relationship of avocadyne. Food and Function, 2021, 12, 6323-6333.	4.6	5
245	Use of Synthetic Glycolipids to Probe the Number and Position of Arabinan Chains on Mycobacterial Arabinogalactan. ACS Chemical Biology, 2021, 16, 20-26.	3.4	5
246	Synthesis of the Toleranceâ€Inducing Oligosaccharide Lactoâ€Nâ€Fucopentaoseâ€...III Bearing an Activated Linker. ChemistryOpen, 2013, 2, 156-163.	1.9	4
247	Synthesis and Evaluation of Bicyclo[3.1.0]hexane-Based UDP-Galf Analogues as Inhibitors of the Mycobacterial Galactofuranosyltransferase GlfT2. Molecules, 2016, 21, 1053.	3.8	4
248	The LPG1x family from Leishmania major is constituted of rare eukaryotic galactofuranosyltransferases with unprecedented catalytic properties. Scientific Reports, 2018, 8, 17566.	3.3	4
249	A Route to Polyprenol Pyrophosphate-Based Probes of O-Polysaccharide Biosynthesis in Klebsiella pneumoniae O2a. Organic Letters, 2019, 21, 1050-1053.	4.6	4
250	Synthesis of Rhamnolipid Derivatives Containing Ester Isosteres. Organic Letters, 2020, 22, 9633-9637.	4.6	4
251	p-Cresyl 2,3-anhydro-5-deoxy-5-phthalimido-1-thio-Î±-D-lyxofuranoside. Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, e365-e365.	0.4	3
252	Chemical and chemoenzymatic synthesis of a trisaccharide fragment of Tsukamurella paurometabola lipoarabinomannan. Canadian Journal of Chemistry, 2006, 84, 642-649.	1.1	3

#	Article	IF	Citations
253	Reprint of â€œEffect of carbohydrate amino group modifications on the cytotoxicity of glycosylated 2-phenyl-benzo[b]thiophenes and 2-phenyl-benzo[b]furansâ€•[Bioorg. Med. Chem. Lett. 21 (2011) 2591â€“2596]. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5107-5112.	2.2	3
254	Glycosylations with 2,3-aziridinofuranose derivatives. Tetrahedron, 2013, 69, 4276-4284.	1.9	3
255	Neoglycolipids as Glycosphingolipid Surrogates for Protein Binding Studies Using Nanodiscs and Native Mass Spectrometry. Analytical Chemistry, 2020, 92, 14189-14196.	6.5	3
256	Tailor made: New insights into lipoarabinomannan structure may improve TB diagnosis. Journal of Biological Chemistry, 2022, 298, 101678.	3.4	3
257	The biosynthetic origin of ribofuranose in bacterial polysaccharides. Nature Chemical Biology, 2022, 18, 530-537.	8.0	3
258	p-Tolyl 2,3-anhydro-5,6-O-isopropylidene-1-thio-Î²-D-gulofuranoside. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, o2201-o2203.	0.2	2
259	Synthesis of Oligosaccharide Fragments of the Lipoarabinomannan from Rhodococcus ruber *. Journal of Carbohydrate Chemistry, 2005, 24, 517-527.	1.1	2
260	Reprint of â€œEffect of carbohydrate amino group modifications on the cytotoxicity of glycosylated 2-phenyl-benzo[b]thiophenes and 2-phenyl-benzo[b]furansâ€•[Bioorg. Med. Chem. Lett. 21 (2011) 2591â€“2596]. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2591-2596.	2.2	2
261	2-(Methoxymethoxy)-1-(4-oxobicyclo[3.1.0]hexan-1-yl)ethyl 4-nitrobenzoate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o329-o329.	0.2	2
262	(1R,2R,3R,4R,5S)-2,3-Bis[(2Sâ€²)-2-acetoxy-2-phenylacetoxy]-4-azido-1-[(2,4-dinitrophenyl)hydrazonomethyl]bicyclo[3.1.0]hexane. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o459-o460.	0.2	2
263	(1S,3S)-1-tert-Butyldiphenylsiloxy-3-hydroxy-3-isopropenyl-1,2,3,4-tetrahydronaphthalene. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o4295-o4297.	0.2	1
264	p-Tolyl 3-amino-3-N,4-O-carbonyl-2,3,6-trideoxy-1-thio-Î±-L-lyxo-hexopyranoside. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o2788-o2790.	0.2	1
265	A Very Short History of the Carbohydrate Division of the American Chemical Society. Journal of Organic Chemistry, 2020, 85, 15778-15779.	3.2	1
266	A New Era of Discovery in Carbohydrate Chemistry. Journal of Organic Chemistry, 2020, 85, 15770-15772.	3.2	1
267	Synthesis of trisaccharides incorporating the Î±-Gal antigen functionalized for neoglycoconjugate preparation. Arkivoc, 2013, 2013, 112-122.	0.5	1
268	1-(2â€²,3â€²-Anhydro-5â€²-O-benzoyl-Î²-D-lyxofuransoyl)-5-fluorouracil. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o1063-o1065.	0.2	0
269	5,6,7,9-Tetra-O-acetyl-4,8-anhydro-1,2,3-trideoxy-D-glycero-D-gulo-non-1-enitol. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, o1939-o1941.	0.2	0
270	4,8-Anhydro-1,2,3,5-tetradeoxy-D-allo-non-1-enitol. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, o1942-o1944.	0.2	0

#	Article	IF	Citations
271	Synthesis and Conformational Analysis of Arabinofuranosides, Galactofuranosides and Fructofuranosides. ChemInform, 2004, 35, no.	0.0	0
272	Methyl 2,3-amino-3-N,4-O-carbonyl-2,3-N-cyclo-2,3,6-trideoxy-Î²-L-allopyranoside. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o2573-o2575.	0.2	0
273	Methyl 3-amino-3-N,4-O-carbonyl-2,3,6-trideoxy-Î±-L-lyxo-hexopyranoside. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o2490-o2492.	0.2	0
274	Methyl 2,3-amino-3-N,4-O-carbonyl-2,3-N-cyclo-2,3,6-trideoxy-Î±-L-allopyranoside. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o2576-o2577.	0.2	0
275	Foreword. Carbohydrate Research, 2008, 343, 1507.	2.3	0
276	Foreword. Carbohydrate Research, 2010, 345, 1251.	2.3	0
277	A Convenient Synthesis of 2â€(Alkylamino)pyridines.. ChemInform, 2002, 33, 63-63.	0.0	0
278	An Oxidationâ€“Amidation Approach for the Synthesis of Glycuronamides. European Journal of Organic Chemistry, 2016, 2016, 2653-2664.	2.4	0
279	4,6-Di-O-Benzylidenyl group-directed preparation of 2-deoxy-2-azido-Î±-d-galactopyranosides promoted by 3-O-TBDPS. Carbohydrate Research, 2021, 500, 108237.	2.3	0
280	Synthesis of a Tridecasaccharide Lipooligosaccharide Antigen from the Opportunistic Pathogen Mycobacterium kansasii. Angewandte Chemie, 2021, 133, 25063.	2.0	0
281	Mechanistic studies on UDPâ€Galactopyranose mutases from Aspergillus fumigatus and Trypanosoma cruzi. FASEB Journal, 2010, 24, 513.2.	0.5	0
282	One-Pot Regioselective Diacylation of Pyranoside 1,2-cis Diols. Journal of Organic Chemistry, 2022, 87, 4894-4907.	3.2	0